

Three-Beam Triangulating Sensor

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Abstract

© Published under licence by IOP Publishing Ltd. The new high precision triangulating sensor for measuring distance and/or inclination angle with high temperature stability for a wide range of technical and technological applications is proposed. The corresponding measurement algorithm is considered and hardware allowing its implementation is developed. The preferable embodiment of three beam triangulating sensor comprises three laser radiation sources, CCD-array based image sensor including optical system, and control electronic unit.

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